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AB - J03287574 Prepn. of cumene hydroperoxide (I) comprises oxidn. of
cumene (II) with molecular oxygen (III) (-contg. gas) in the presence
of alkali(ne earth) metal cpd(s) (IV) while controlling pH of reaction
medium at 3-6.
- Pref. (III) (pref. air) is blown into a mixt. of (II) and aq. soln. of
(IV) (pref. hydroxide(s) or carbonate(s) of alkali(ne earth) metal(s)
in amt. (0.1-6 gram-equiv. per ton of (II)) and concn. of aq. (IV)
soln. is detd. so that the amt. of water w.r.t. (II) is 0.1-10 wt.%
and the pH of the reaction is 3.5-5.5. Oxidn. is carried out at 80-130
deg.C (pref. 90-120 deg.C) under a pressure of 10 kg/sq.cm or lower.
- USE/ADVANTAGE - (I) is useful in the prodn. of phenol and acetone. (I)
is prepd. more selectively than in prior art without lowering reaction
rate and yield of (I). (3pp Dwg.No.0/0)
CN - R00474-P
IW - CUMENE HYDROPEROXIDE PREPARATION HIGH SELECT AIR OXIDATION CUMENE
PRESENCE ALKALI EARTH METAL COMPOUND SOLUTION
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PRESENCE ALKALI EARTH METAL COMPOUND SOLUTION
NC - 001
OPD - 1990-04-02
ORD - 1991-12-18
PAW - (MITK) MITSUI TOATSU CHEM INC
TI - Cumene hydroperoxide prepn. with higher selectivity - by air oxidn. of
cumene in presence of alkali(ne earth) metal cpd(s) soln.

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